

**CLAIMS**

**WHAT IS CLAIMED IS:**

1. A tool for the insertion of a sensor to a predetermined depth within a bore, comprising:
  - a handle at a first tool end;
  - an elongate tool tip affixed to the handle at an opposite tool end, the tip having an axial passageway extending to a remote tip end;
  - the remote tip end having a sensor receiving socket in communication with the tip axial passageway.
2. A tool according to claim 1, wherein the handle includes an axial passageway in axial alignment with the tip axial passageway, the aligned handle and tip passageways being dimensioned to receive sensor leads there through from the remote tip end to an outer end of the handle passageway.
3. A tool according to claim 1 wherein the tip is detachable from the handle.
4. A tool according to claim 1 wherein the handle includes a substantially T-shaped gripping portion.
5. A tool according to claim 1 wherein the tip includes an observation window spaced a predetermined distance from the remote tip end, the observation window allowing visual communication with the tip passageway.
6. A tool according to claim 5 wherein the tip further comprises an axial slit communicating with the tip passageway and extending between the tip end and the observation window.

7. A tool according to claim 1, wherein the length of the tip is substantially equal the depth of the bore.
8. A tool according to claim 1, wherein the handle is substantially T-shaped.
9. A tool according to claim 1, wherein the tool tip is an elongate roll pin having opposite slits extending in to the tip passageway.
10. A tool for the insertion of a sensor to a predetermined depth within a bore, comprising:
  - a handle at a first tool end;
  - an elongate tool tip extending from the handle to a remote tip end;
  - an axial passageway extending through the tip and handle to the first tool end; and
  - a sensor receiving socket at the tip remote end in communication with the axial passageway.
11. A tool according to claim 10, wherein the tip includes an observation window positioned between the tip remote end and the handle in visual communication with the axial passageway.
12. A tool according to claim 11, wherein the length of the tip is substantially equal the depth of the bore.
13. A tool according to claim 12, wherein the tip is formed as a roll pin having opposite axial slits extending in to the tip passageway and extending between the remote tip end and the observation window.
14. A method for inserting a sensor to a predetermined depth within a bore, the sensor including at least one lead, the method comprising the steps:
  - a. drilling the bore to at least a required sensor depth;
  - b. positioning the sensor at a remote tip end of a tool having an elongate tip terminating at the tip end; a handle affixed to the tip;

- and an axial passageway extending through the tip and the handle to a tool passageway end;
- c. feeding the lead from the sensor through the tool axial passageway until the sensor touches the tip end of the tool;
  - d. inserting the tip end of the tool with the sensor into the bore to the predetermined sensor depth;
  - e. removing the tool tip end out of the bore with the sensor remaining within the bore at the predetermined depth.
15. The method according to claim 14, further comprising the step of removing the sensor lead from the tool axial passageway as the tool tip end is removed from the bore.
16. The method according to claim 13, further comprising the steps of positioning the tool tip within the bore prior to positioning the sensor at a remote tip end;  
inserting the sensor through the axial passageway into the bore from the tool end until the sensor reaches the tool tip end;  
monitoring the progress of the sensor's insertion through the axial passageway through a window extending through the tool tip in visual communication with the axial passageway; and  
removing the tool tip out of the bore leaving the sensor at the predetermined depth.
17. The method according to claim 16, further comprising the step of placing indicia on the sensor lead visible through the window as the sensor reaches the tool tip end.